

RD SHARMA

Solutions

Class 7 Maths

Chapter 11

Ex 11.4

Q1. Find each of the following:

(i) 7% of Rs.7150

$$\begin{aligned} & \text{Rs. } \left(\frac{7}{100} \times 7150\right) \\ & = \text{Rs.}500.50 \end{aligned}$$

(ii) 40% of 400Kg

$$\begin{aligned} & \text{Kg. } \left(\frac{40}{100} \times 400\right) \\ & = 160\text{Kg} \end{aligned}$$

(iii) 20% of 15.125litres

$$\begin{aligned} & \text{litres. } \left(\frac{20}{100} \times 15.125\right) \\ & = 3.025\text{litres} \end{aligned}$$

(iv) $3\frac{1}{3}\%$ of 90km

$$\begin{aligned} & \text{km. } \left(\frac{10}{300} \times 90\right) \\ & = 3\text{km} \end{aligned}$$

(v) 2.5% of 600metres

$$\begin{aligned} & \text{metres. } \left(\frac{2.5}{100} \times 600\right) \\ & = 15\text{metres} \end{aligned}$$

Q2. Find the number whose $12\frac{1}{2}\%$ is 64.

Let the required number be x. Then,

$$\begin{aligned} 12\frac{1}{2} \times x &= 64 \\ 12.5\% \times x &= 64 \\ \frac{12.5}{100} \times x &= 64 \\ x &= \frac{64 \times 100}{12.5} \\ &= 64 \times 8 = 512 \\ \text{Therefore } x &= 512 \end{aligned}$$

Q3. What is the number, $6\frac{1}{4}\%$ of which is 2?

Let the required number be x. Then,

$$\begin{aligned} 6\frac{1}{4} \times x &= 2 \\ 6.25\% \times x &= 2 \\ \frac{6.25}{100} \times x &= 2 \\ x &= \frac{2 \times 100}{6.25} \\ &= 2 \times 16 = 32 \\ \text{Therefore } x &= 32 \end{aligned}$$

Q4. If 6 is 50% of a number, what is the number?

Let the required number be x. Then,

$$50\% \text{ of } x = 6$$

$$\frac{50}{100} \times x = 6$$

$$x = \frac{300 \times 2}{50}$$

$$\frac{600}{50} = 12$$

$$x = 12$$